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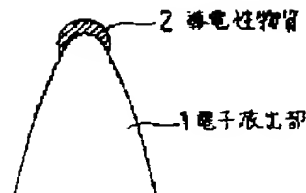
APPLICATION DATE : 24-06-94
APPLICATION NUMBER : 06143516

APPLICANT : FUJITSU LTD;

INVENTOR : NAKATANI TADASHI;

INT.CL. : H01J 1/30 H01J 9/02

TITLE : ELECTRIC FIELD EMITTING CATHODE
DEVICE AND ITS MANUFACTURE



ABSTRACT : PURPOSE: To provide an electric field emitting cathode device which is free from generation of any bright point.

CONSTITUTION: An electric field emitting cathode device comprises an electron emission part 1, emitter electrode, and gate electrode. When the electron emission part 1 is of p-type semiconductor, at least foremost part of it is enclosed with a conductive material 2, and when the part 1 is made of a metal, at least its foremost part is covered with an n-type semiconductor. Accordingly the emitter voltage increases void layer to lead to enhancement of the feedback effect.

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